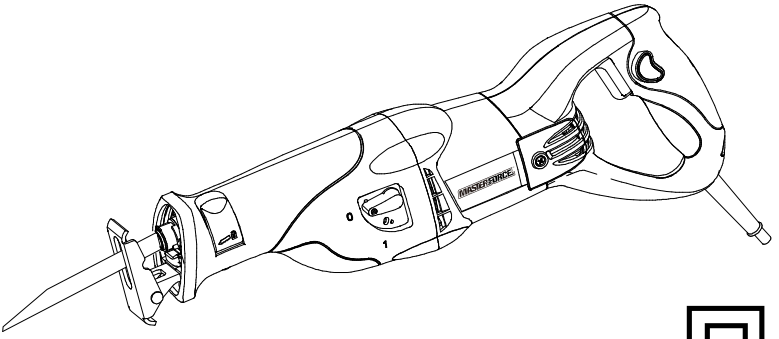
Operator's Manual

Reciprocating Saw

Model No. 241-0751



IMPORTANT :

⚠ **WARNING!** Carefully read this Owner's Manual before using this tool. Pay close attention to all **Safety Instructions, Warnings,** and **Caution sections.** Use this tool properly and only for its intended use.

⚠ **S**afety symbols in this manual are used to flag possible dangers. The safety symbols and their explanations require the operator's full understanding. The safety warnings do not, by themselves, eliminate any danger, and they are not a substitute for proper accident prevention measures.

⚠ This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or to others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

TABLE OF CONTENTS

Specification .....page 2
Rules for Safe Operation.....page 3
Description.....Page 7
Assembly and Adjustment.....page 8
Operation .....page 10
Maintenance.....page 13
Troubleshooting.....Page 14
Accessories.....page 15
Warranty.....page 15

SPECIFICATION

Rated voltage:	120 V ~ 60 Hz
Rated power:	12 A
No load speed:	0-2700 RPM
Blade stroke:	1-1/8"
Max. Cutting depth:	8" (200mm) on wood 25/32" (20mm) on steel
Weight:	8LBS 6OZ

SAFETY SYMBOLS FOR YOUR TOOL
The label on your tool may include thefollowing symbols
V .....Volts
A .....Amps
Hz .....Hertz
W .....Watts
min .....minutes
~ .....Alternating current
⎓ .....Direct current
n_o.....No load speed
⧈ .....Class II construction,Double insulated
.../min .....Revolutions or Strokes per minute
⚠ .....Indicates danger,warning or caution. It means attention!Your safety is involved
.....Wet Conditions Alert Do not expose to rain or use in damp locations

RULES FOR SAFE OPERATION

KNOW YOUR TOOL

Carefully read this Operating Manual and all labels affixed to the saw before using this tool. Keep this Manual available for future reference.

IMPORTANT

This tool should only be serviced by a qualified service technician. For more information, call the toll-free helpline, 1-866-917-4374.

GENERAL SAFETY RULES FOR ALL POWER TOOLS

⚠**WARNING! Read all safety warnings and instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

✓ **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.

✓ **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.

✓ **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

✓ **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.

✓ **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

✓ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

✓ **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

✓ **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

✓ **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

✓ **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

✓ **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

✓ **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and / or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

✓ **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

✓ **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

✓ **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

✓ **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

4) Power tool use and care

✓ **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely at the rate for which it was designed.

✓ **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

✓ **Disconnect the plug from the power source and/or the battery pack from**

the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

✓ **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

✓ **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.

✓ **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

✓ **Use the power tool, accessories, tool bits, etc. in accordance with these instructions , taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

✓ **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

SPECIFIC SAFETY RULES FOR RECIPROCATING SAW

⚠ **WARNING:** To avoid injury, hold the tool by the insulated gripping surfaces only. If the tool contacts hidden wiring or its own cord, exposed metal parts of the tool could shock the operator and cause serious injury. Make sure that hidden electrical wiring, water pipes, or other hazards are not in the cutting path.

✓ **Hold tool by the insulated gripping surfaces when performing an operation when the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

✓ **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.

✓ **If you are not thoroughly familiar with the operation** of a reciprocating saw, obtain advice from a qualified person.

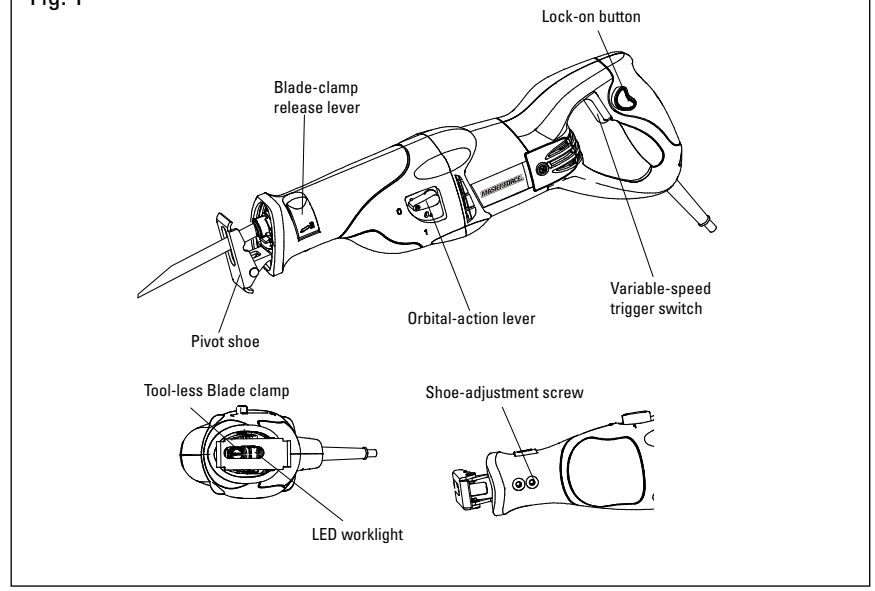
- ✓ **When servicing,** use only identical replacement parts.
- ✓ **Avoid cutting nails and staples when operating with the wood blade.** Inspect the workpiece carefully and remove all nails and staples before operation.
- ✓ **Make sure** that the blade always extends beyond the shoe and the workpiece throughout the stroke. Blades may shatter if they strike the workpiece or shoe.
- ✓ **Do not cut an oversized workpiece.**
- ✓ **Check for proper clearance** beyond the workpiece before cutting, so that the blade will not strike the floor, workbench, etc.
- ✓ **Make sure that the blade** is not contacting the workpiece before the switch is turned on.
- ✓ **Keep the saw blades clean and sharp.**
- ✓ **Use only correct blades.** Always use blades recommended for the type of workpiece.
- ✓ **Do not leave the tool running.** Operate the tool only when hand-held.
- ✓ **Always release the switch to "OFF" and wait for the tool to come to a complete stop before removing the blade from the workpiece.**
- ✓ **Keep the handle dry, clean, and free from oil and grease.** Always use a clean cloth when cleaning. Do not use solvents, brake fluids, gasoline or other petroleum products to clean the tool; they may damage plastic parts.
- ✓ **Do not operate this tool in a gaseous or explosive environment or near explosive materials.**
- ✓ **Never force the tool.** Apply firm pressure against the saw's pivot shoe for the sawing operation--too little or too much pressure could cause jumping or vibration and may break the blade.
- ✓ **Never** operate the saw without the pivot shoe in position. The spindle may strike against the workpiece and damage the reciprocating mechanism.
- ✓ **Do not touch the blade** or the workpiece immediately after the sawing operation. They may be extremely hot and could burn your skin.
- ✓ **Hold the tool firmly** with two hands when operating the tool.
- ✓ **Do not reach underneath** the workpiece. The proximity of the blade to your hand is hidden from your sight.

DESCRIPTION

KNOW YOUR RECIPROCATING SAW (Fig. 1)

Before attempting to use this reciprocating saw, familiarize yourself with all of its operating features and safety requirements.

Fig. 1



⚠ **WARNING:** The safe use of this product requires an understanding of the information on the tool and in this operator's manual, as well as knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

TOOL-LESS BLADE CHANGE SYSTEM

The saw has a blade clamp design that does not require the use of a tool (blade wrench) when installing or removing the blade.

VARIABLE-SPEED TRIGGER SWITCH

The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.

PIVOT SHOE

The shoe pivots to provide maximum control against the surface being cut.

LED WORKLIGHT

The LED worklight illuminates the cutting area.

ORBITAL FUNCTION

The orbital action thrusts the blade forward on the cutting stroke and greatly increases the cutting speed compared to the normal up-and-down blade action.

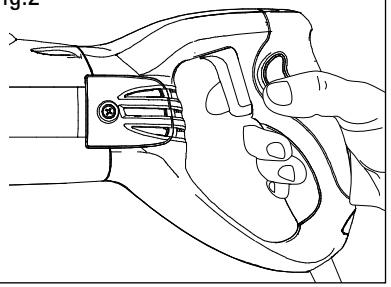
⚠ **WARNING:** To avoid injury and damage, do not operate the saw without the pivot shoe in place. The spindle may strike against the workpiece and damage the reciprocating mechanism.

ASSEMBLY AND ADJUSTMENT

⚠ **WARNING!** Your saw should never be connected to the power source when you are assembling parts, making adjustments, installing or removing blades, cleaning, or when it is not in use. Disconnecting the reciprocating saw will prevent accidental starting, which could cause serious personal injury.

ON/OFF SWITCH, VARIABLE-SPEED CONTROL AND LOCK_ON BUTTON (Fig. 2)

Fig.2



Your reciprocating saw is equipped with a trigger switch to turn the saw on and off and to control the speed.

1. To start the saw, squeeze the trigger switch.
2. To stop the saw, release the trigger switch and allow it to return to the "OFF" position.
3. To lock the on/off switch in the "ON" position, squeeze the trigger switch and, while holding it "ON", press in the lock-on button. This feature is convenient for continuous sawing applications.
4. To unlock the on/off switch, squeeze and release the trigger switch without depressing the lock-on button.
5. To vary the speed, simply increase or decrease the pressure on the trigger switch. The more tightly the trigger switch is squeezed, the higher the speed.

⚠ **WARNING!** If the "lock-on" button is continuously depressed, the trigger cannot be released and the tool cannot be turned off.

LED WORKLIGHT

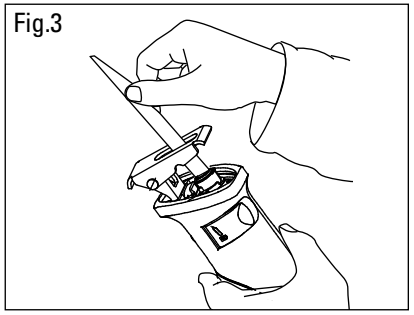
Your reciprocating saw has a built-in LED worklight for illuminating the cutting area. To activate the LED worklight, plug in your reciprocating saw and depress the trigger switch.

BLADE SELECTION

In order to obtain the best performance from the saw, it is important to select the correct blade for the particular application and type of material to be cut.

INSTALLING AND REMOVING A SAW BLADE (Fig. 3)

Fig.3



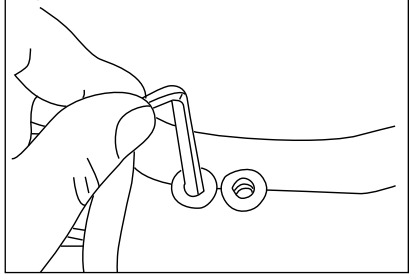
1. Disconnect the saw from the power supply.
2. Open the blade-clamp release lever.
3. Insert the saw blade into the blade clamp as far as it will go, and release the blade-clamp release lever to lock the blade in position.
4. To remove the blade, open the blade clamp release lever and pull the blade from the clamp

⚠ **WARNING!** Make sure that the blade has cooled down before touching it.

⚠ **CAUTION!** Test to make sure sure the blade can not be removed.

PIVOT SHOE

Fig.4



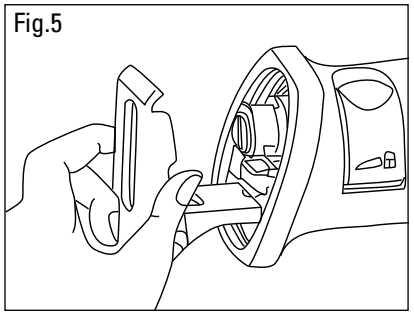
Sliding the Shoe In or Out (Fig.4)

For maximum control and longer blade life, the base assembly slides in or out to adjust the effective stroke length.

1. Disconnect the saw from the power supply.
2. Loosen the shoe-release screws with the hex wrench (supplied), and slide the shoe to the desired position.
3. Tighten the shoe-release screws to lock the shoe firmly in place.

Pivoting the Shoe (Fig.5)

Fig.5



The shoe pivots in order to provide maximum control against the surface being cut.

ORBITAL-ACTION ADJUSTMENT (Fig.6)

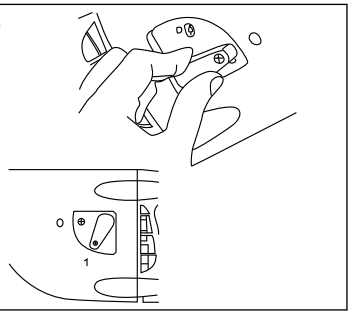
The orbital-action lever has two positions. "0" selects normal cutting without orbital action. "1" selects orbital action and causes the blade to

swing slightly backwards and forwards as it cuts.

This orbital action increases the efficiency of cutting. Experiment on a piece of scrap material to determine the optimum orbital action setting.

Orbital action increases the efficiency of cutting, but may result in a rougher finish to the cut in some materials.

Fig.6



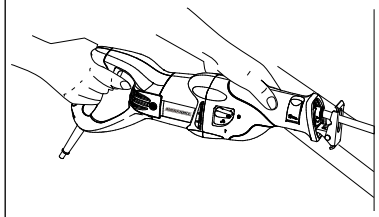
OPERATION

GENERAL CUTTING (Fig.7)

⚠**WARNING!** Before plugging in the tool, always check to determine that the switch performs properly and returns to the "OFF" position when released.

⚠**WARNING!** To help prevent electrical shock, hold the tool only by the plastic handle and the insulated grip area. When sawing into walls or floors you may encounter electrical wiring. Sawing into a "live" wire will cause electric shock.

Fig.7



1. Unplug the saw.
2. Make sure that the workpiece is firmly anchored: clamp the workpiece to prevent slipping or moving while cutting.
3. Use the appropriate type and size of blade for the workpiece material and size.
4. Adjust the pivot shoe as necessary to expose unworn blade teeth for longer blade life. Carefully follow the instructions in Sliding the Shoe In or Out.
5. Check for clearance behind the workpiece so that the blade will not impact another surface.
6. Clearly mark the line of cut on the workpiece.
7. If cutting metal, apply cutting oil on the line.
8. Plug the reciprocating saw into an electrical outlet.
9. Hold the saw firmly with both hands. Make sure to keep your hands on the insulated gripping areas only.

10. Depress the trigger switch to start the saw and bring it to the maximum desired cutting speed before applying the blade to the workpiece.
11. Do not force the tool. Place the shoe firmly on the workpiece while cutting. Use only enough steady pressure on the blade to keep the saw cutting.
12. Reduce pressure as the blade comes to the end of the cut.
13. Release the trigger switch. Allow the saw to come to a complete stop before removing the blade from the workpiece.
14. If sawing fiberglass, plaster, wallboard, or spackling compound, clean the motor vents frequently with a vacuum or compressed air. These materials are highly abrasive and may accelerate the wear on motor bearings and brushes.

NOTE: Cutting speeds should vary with the workpiece. Hard materials, such as metals, require lower speeds; for softer materials use higher speeds.

⚠ **WARNING!** Do not allow familiarity with the saw to make you careless. One careless fraction of a second is enough to inflict serious injury.

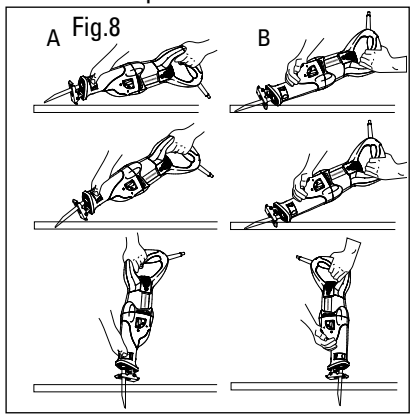
PLUNGE CUTTING (Fig.8)

Your MASTERFORCE reciprocating saw is ideal for plunge cutting directly into surfaces that cannot be cut from an edge, such as walls or floors. Plunge cutting may be done two ways depending on how the blade is inserted. Column A shows how to plunge cut with the teeth of the blade facing down. Column B shows how to plunge cut with the teeth of the blade facing up.

⚠ **WARNING!** Do not plunge cut into metal material.

1. Unplug the saw.
2. Insert the blade into the tool. If the blade was inserted with the teeth facing down toward the lower surface of the tool, hold the tool as shown in Column A, resting the edge of the shoe on the workpiece.
3. If the blade was inserted with the teeth facing up toward the upper surface of the tool, hold the tool as shown in Column B, resting the edge of the shoe on the workpiece as shown.
4. With the tip of the blade just above the workpiece, pull the trigger and allow the tool to come to the desired speed.
5. Carefully pivot the tool on the edge of

Fig.8



the shoe, so that the moving saw blade pierces the workpiece.

6. As the blade starts cutting, continue to pivot the tool until the entire shoe rests firmly on the workpiece. Then guide the tool along your cutting line to make the desired cut.

⚠**WARNING!** To reduce the risk of explosion, electric shock and property damage, always check the work area for hidden gas pipes, electrical wires or water pipes when making blind or plunge cut.

7. Release the trigger switch. Allow the saw to come to complete stop before removing the blade from the workpiece.

⚠ **WARNING!** To avoid loss of control and serious injury, make sure that the blade reaches maximum speed before touching it to the workpiece.

METAL CUTTING

The saw can be used to cut metals, such as sheet steel, pipe, steel rods, aluminum, brass, and copper. Be careful not to twist or bend the saw blade. Do not force.

The use of cutting oil is recommended when cutting soft metals and steel. Cutting oil will keep the blade cool, increase cutting action, and prolong blade life.

⚠**WARNING!** Never use gasoline, because normal sparking could ignite the fumes.

1. Securely clamp the workpiece in position, and make the cut close to the clamping point in order to minimize the workpiece vibration.
2. When cutting conduit pipe or angle iron, clamp the work in a vise, if possible, and cut close to the vise.
3. To cut thin sheet material, “sandwich” the material between pieces of hardboard or plywood, and clamp the layers together in order to reduce vibration and tearing of the material.

MAINTENANCE

⚠**WARNING:** To ensure safety and reliability, all repairs should be performed by a qualified service technician at a MASTERFORCE Service Center.

⚠**WARNING!** For your safety, always turn off the switch and unplug the reciprocating saw from the power source before performing any maintenance or cleaning.

Periodic maintenance of your reciprocating saw allows for long life and trouble-free operation. The saw can generate considerable quantities of cutting residue.

A cleaning, lubrication and maintenance schedule should be maintained.

As a common-sense and preventive maintenance practice, follow these recommended steps:

- ✓ Inspect the blade; Check it for wear or damage.
- ✓ Keep the ventilation slots of the motor clean to prevent overheating of the motor.
- ✓ Electric tools are subject to accelerated wear and possible premature failure when they are used to work on fiberglass boats and sports cars, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electrical tool parts, such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compound, or plaster. During any use on these materials, it is extremely important that the tool is cleaned frequently by blowing with an air jet.
- ✓ Use a soft clean and damp cloth to wipe the tool housing. A mild detergent can be used but nothing like alcohol, petrol or other cleaning agent. Never use caustic agents to clean plastic parts.

⚠ **WARNING!** Always wear safety goggles or safety glasses with side shields during power tool operations or when blowing dust. If operation is dusty, also wear a dust mask.

⚠ **WARNING!** When changing a blade immediately after operation, allow the blade to cool before removing it to avoid possible burning.

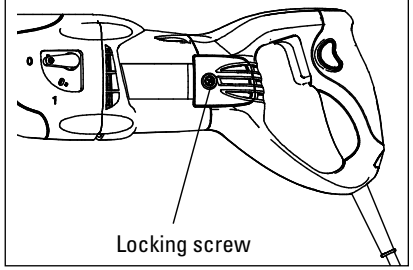
⚠ **WARNING!** Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

⚠ **WARNING!** Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

REPLACEMENT OF CARBON BRUSHES (Fig. 9)

1. Unplug the saw before inspecting or replacing brushes.
2. Loosening the locking screw and remove carton brush covers.
3. Replace the carbon bushes and keep the brushes clean and sliding freely in their guide channels.

Fig.9



NOTE: To reinstall the same brushes, make sure that the brushes go back in the same way they came out. This will avoid a break-in period.

4. Install the carton brush covers and tighten the locking screw, but do not over tighten. The saw should be allowed to "RUN IN" (run at no-load without a blade) for 5 minutes before use to seat the new brushes properly.

TROUBLESHOOTING

⚠ **WARNING!** Turn the ON/OFF switch to the "OFF" position and unplug the saw from the power source before performing troubleshooting procedures.

PROBLEM	CAUSE	SOLUTION
The saw will not start	Not plugged into power source	Plug the saw into a power source
Cutting is difficult	Blade is blunt	Replace saw blade.
Blade cannot be removed	Saw dust in the clamp slot	Clean the clamp slot with brush

ACCESSORIES

Saw blade.....2 pcs

Hex key.....1 pc

WARRANTY

3-MONTH MONEY BACK GUARANTEE:

This MASTERFORCE™ brand power tool carries our 3-Month Money Back Guarantee. If you are not completely satisfied with your MASTERFORCE™ brand power tool for any reason within three (3) months from the date of purchase, return the tool with your original receipt to any MENARDS® retail store, and we will provide you a refund – no questions asked.

3-YEAR LIMITED WARRANTY:

This MASTERFORCE™ brand power tool carries our famous No Hassle 3-Year Limited Warranty to the original purchaser. If the tool fails within three (3) years from the date of purchase, simply bring this tool and its sale receipt back to your nearest MENARDS® retail store for a free equivalent replacement within those three years. Notwithstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.
For questions / comments, technical assistance or repair parts –
Please Call Toll Free at: 1-866-917-4374 (M-F 8am – 6pm)

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.